DRINKING WATER SAMPLING REPORT

TODAY CARE CHILD DEVELOPMENT CENTER
IRS SERVICE CENTER
UT0036ZZ
1160 WEST 1200 SOUTH
OGDEN, UT 84201

SURVEY DATE:

SEPTEMBER 9, 2021

PREPARED FOR:

GENERAL SERVICES ADMINISTRATION
PUBLIC BUILDING SERVICE
OFFICE OF FACILITIES MANAGEMENT
FACILITY RISK MANAGEMENT DIVISION 1800 f STREET
WASHINGTON, DC 20405

PREPARED BY:

PROGRAM SUPPORT CENTER
FEDERAL OCCUPATIONAL HEALTH
ENVIRONMENTAL HEALTH AND SAFETY SERVICES
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REPORT DATE:

OCTOBER 3, 2021

Summary of Comments on R8 UT0036ZZ final childcare report.pdf

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Number: 1 Author: DanaHJohnson Subject: Sticky Note Date: 7/20/2022 6:34:00 PM -04'00'
Purpose: (b) (5)
Source: Brad Short, Industrial Hygienist
Scope: Today Care Child Development Center, IRS Service Center, UT0036ZZ, Ogden, UT
Conclusion:
(b) (5)

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I. EXECUTIVE SUMMARY

On September 9, 2021 at the request of the General Services Administration (GSA) Public Building Service, Office of Facilities Management, Facility Risk Management Division, Federal Occupational Health (FOH) conducted a Drinking Water Survey at the Today Care Child Development Center located in the IRS Service Center (UT0036ZZ) at 1160 West 1200 South Ogden, Utah 84201. FOH Environmental Health, Safety and Industrial Hygiene Consultant Douglas C. Pickup MS, REHS, CIH performed this task under an Interagency Agreement established between FOH and the GSA. The purpose of this survey was to collect and analyze for lead (Pb) and copper (Cu) content, drinking water samples from outlets used for consumption in this child development center. The analysis results of these samples were then evaluated against Environmental Protection Agency (EPA) Primary Drinking Water Standards and Action Levels for Pb and Cu.

First draw drinking water samples were collected from this childcare center in the morning prior to the center being open. Samples were collected from thirteen (13) different drinking water outlets at the site. This included samples from seven (7) drinking fountains and six (6) sink faucets. Each sample was taken after the outlet and supply line had been inactive for a minimum of 12 hours. Upon collection, all samples were placed in an insulated cooler full of ice, and shipped overnight on the day of collection to ALS Environmental in Houston, Texas where they were analyzed for Pb and Cu via EPA Lead in Drinking Water Analytical Method 200.8. One (1) of the samples collected had a Pb level above the EPA Drinking Water Limit and Action Level (AL) of 15 micrograms per liter (ug/l). This sample was collected from fountain bubbler in the 2's Classroom Room 808 and had 17.2 ug/l lead content. One (1) sample also had a Cu level above the EPA Drinking Water Limit or AL for Cu of 1300 ug/l. This sample had a Cu content of 1620 ug/l and was collected from the sink faucet in Room 810 – Infant Room. The remainder of the samples collected found Pb and Cu levels below the EPA AL criteria.

Based on the drinking water samples collected at the Today Care Child Development Center located in the IRS Service Center at 1160 West 1200 South Ogden, Utah on September 9, 2021, it is concluded that 2 (two) of the fixtures and water lines sampled had Pb and Cu level above the EPA AL standard. All other water lines and outlets sampled are in compliance with these EPA water criteria. It is recommended that additional sampling be conducted on the two outlets and water lines found to have Pb and Cu above the EPA. These samples should be collected to validate the results from the samples collected from these locations during this survey; and to determine actions that need to be taken bring these locations into compliance with EPA standards.

Page: 3

Number: 1 Author: DanaHJohnson Subject: Highlight Date: 7/20/2022 6:32:52 PM -04'00'

II. INTRODUCTION

At the request of the General Services Administration (GSA), Public Building Service Office of Facilities Management Facility Risk Management Division, Federal Occupational Health (FOH) conducted a Drinking Water Survey at the Today Care Child Development Center located in the IRS Service Center (UT0036ZZ) at 1160 West 1200 South Ogden, Utah 84201. This survey was conducted on September 9, 2021. FOH Environmental Health and Industrial Hygiene Consultant Douglas C. Pickup MS, REHS, CIH performed this task under an Interagency Agreement established between FOH and GSA. The purpose of this survey was to collect samples from water outlets used for drinking or consumption in this child development center, analyze these water samples for lead (Pb) and copper (Cu) content, and evaluate the analysis results against the U.S. Environmental Protection Agency (EPA) Primary Drinking Water Standards and Action Levels for Pb and Cu.

III. SAMPLING AND ANALYSIS METHODS

First draw drinking water samples were collected from this child development center in the morning prior to the center being open. Each sample was taken after the outlet and supply line had been inactive for a minimum of 12 hours. Cold water lines were sampled. In some cases where the outlet fixture only allowed for a collection of a hot and cold-water line mix, a combined hot and cold-water sample was collected. The location and outlet from which each sample was taken was recorded and a unique identifier (sample number) was provided for each sample and recorded in a sample log book and on the sample vile. Where possible the manufacture of the outlet from which the sample was collected was recorded as well as general condition and information about outlet condition. Once all samples were gathered, a sample submission form and chain-of custody document was completed. Upon collection, all samples were placed in an insulated cooler full of ice, and shipped overnight on the day of collection to ALS Environmental located at 10450 Standcliff Road, Suite 200 in Houston, Texas. Field blanks or control samples were submitted with each sample set. FOH maintained possession of all samples from the time of collection until shipment by FedEx to ALS. ALS is EPA and National Environmental Laboratories Accreditation Conference (NELAC) accredited for drinking water sample analysis. All samples were collected and analyzed for Pb and Cu content in accordance with EPA Water Analytical Method 200.8. Containers for collection of all samples were provided and shipped to the site by ALS in accordance with EPA 200.8 criteria.

IV. RESULTS & FINDINGS

Samples were collected from thirteen (13) different drinking water outlets at this site. This included samples from six (6) drinking fountains and seven (7) sink faucets. General information and the results of the analysis of each of these samples for Pb and Cu are contained in Table 1. Levels of Pb in the samples ranged from less than 1.06 micrograms per liter (ug/l) to 17.2 ug/l. Cu levels in the samples ranged from 163 ug/l to 1620 ug/l. **One (1) sample collected contained Pb content of 17.2 ug/l which is above the EPA Drinking Water Limit and Action Level (AL) of 15 ug/l. This sample was collected from the child level sink fountain/bubbler in Room #808 - 2's Classroom See Photo 1). One (1) sample collected from the cold-water line on the sink faucet in Room #810 - Infant Care Room (see Photo 2), had a Cu content of 1620 ug/l, which exceeds EPA Drinking Water Limit or AL for Cu of 1300 ug/l.** The remainder of the samples collected from site drinking water outlets had Pb and Cu levels that were below these EPA AL criteria.

CONCLUSIONS AND RECOMMENDAITONS

Based on the drinking water samples collected and analyzed from the Today Care Child Development Center located in the IRS Service Center at 1160 West 1200 South Ogden, Utah on September 9, 2021, it is concluded that two drinking water outlets the water lines evaluated were not in compliance with the EPA Drinking Water AL criteria for Pb an Cu. This included the child level sink fountain/bubbler in Room #808 which had Pb level of 17.2 ug/l; and a sink faucet in Room #810 which had Cu level of 1620 ug/l. Additional water samples need to be collected from these two drinking outlets to validate the results of the samples collected during this survey, and to characterize conditions that may be causing the elevated levels identified. Based on this additional data, actions should be taken to bring these two locations under compliance with EPA standards. These actions may include replacing the current outlets (faucet or fountain) with new fixtures or installing a filtering device on the water lines to these distribution locations.

The remainder of the faucets and fountains sampled at this facility identified Pb and Cu levels that were below EPA drinking water standards. All fountains and sinks sampled were found to be in good condition, clean, sanitized and well maintained. No excessive corrosion or damage was noted on any sink, faucet, fountain bubbler or other drinking water system component throughout the center.

TABLE 1
ANALYSIS RESULTS
LEAD AND COPPER IN DRINKING WATER SAMPES
TODAY CARE CHILD DEVELOPMENT CENTER
IRS SERVICE CENTER - UT0036ZZ
1160 WEST 1200 SOUTH
OGDEN, UT 84201
SEPTEMBER 9, 2021

Sample ID	*Sample Location*	*Room Type*	*Type of Outlet*	*Manufacturer*	*Source*	*Pb Content (ug/l)*	*Cu Content (ug/l)*
99-DW1	Room #810	Infant Care	Faucet - sink used for food and bottle prep	T&S Brass	Building CW Line	3.51	**1620**
99-DW2	Room #810	Infant Care	Fountain – on children's low-level sink	Elkay	Building CW Line	3.11	1270
99-DW3	Room #809	Toddlers Classroom	Faucet – on children's low-level sink	Elkay	Building CW Line	3.22	378
99-DW4	Room #809	Toddlers Classroom	Fountain – on children's low-level sink	Elkay	Building CW Line	2.31	343
99-DW5	Room #808	Two's Classroom	Faucet – children's low sink	Elkay	Fixed Faucet – Combined H/C Line Mix	9.48	758
99-DW6	Room #808	Two's Classroom	Fountain/Bubbler – on children's low-level sink	Elkay	Building CW Line	**17.2**	570
99-DW7	Room #807	Pre-School Classroom	Faucet – on children's low-level sink	Elkay	Building CW Line	6.06	538

^ Analyte (Pb) detected below the analytical limit of quantitation (LOQ)
* Analyte (Pb or Cu) not detected above sample detection limit (SDL) or and analytical method detection limit (MDL)
The EPA Drinking Water Action Level (AL) standard is 15 ug/l for Pb and 1300 ug/l for Cu

TABLE 1 CONTINUED
ANALYSIS RESULTS
LEAD AND COPPER IN DRINKING WATER SAMPES
TODAY CARE CHILD DEVELOPMENT CENTER
IRS SERVICE CENTER - UT0036ZZ
1160 WEST 1200 SOUTH
OGDEN, UT 84201
SEPTEMBER 9, 2021

Sample ID	*Sample Location*	*Room Type*	*Type of Outlet*	*Manufacturer*	*Source*	*Pb Content (ug/l)*	*Cu Content (ug/l)*
99-DW8	Room #807	Pre-School Classroom	Fountain – on children's low-level sink	Elkay	Building CW Line	1.48	307
99-DW9	Room #806	Kindergarten Classroom	Fountain – on children's low-level sink	Elkay	Building CW Line	3.80	218
99-DW10	Room #805	Kindergarten Classroom	Faucet – on children's low-level sink	Elkay	Building CW Line	8.22	1090
99-DW11	Room #805	Pre-K Classroom	Faucet – on children's low-level sink	Elkay	Building CW Line	6.40	656
99-DW12	Room #805	Pro-K Classroom	Fountain – on children's low-level sink	Elkay	Building CW Line	1.06	163
99-DW13	Kitchen	Food prep.	Faucet – on 3-compartment sink	T & S	Building CW Line	2.91	519
99-DW14	Field	Blank	Control	Sample	Bottled Water	0.991*	350
99-DW15	Field	Blank	Control	Sample	Municipal Water Fountain	1.72	32.9

^ Analyte (Pb) detected below the analytical limit of quantitation (LOQ)
* Analyte (Pb or Cu) not detected above sample detection limit (SDL) or and analytical method detection limit (MDL)
The EPA Drinking Water Action Level (AL) standard is 15 ug/l for Pb and 1300 ug/l for Cu

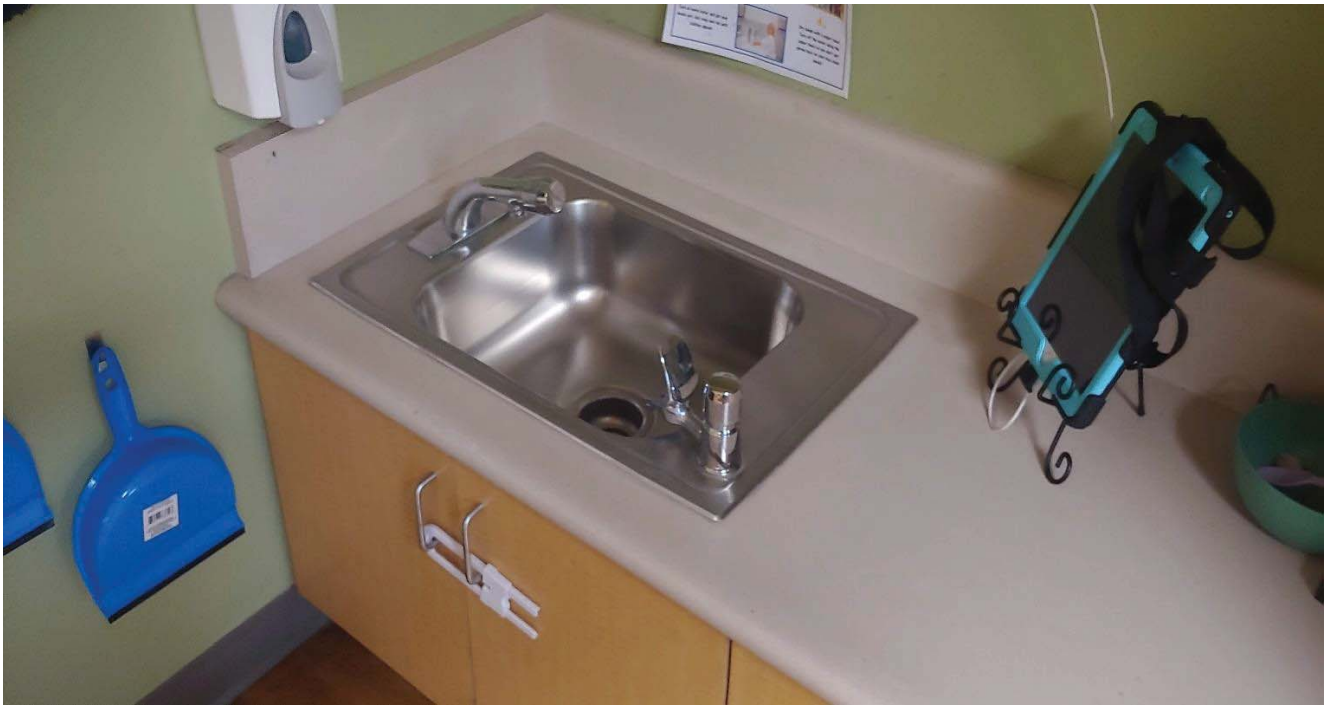

Photo 1 – Water Sample Result Indicated Pb Level Above EPA AL
Fountain/Bubbler on Child Level Combo Sink- Room #808 - 2's Classroom
Today Care Child Development Center - IRS Center 1160 W 1200 S Ogden, UT

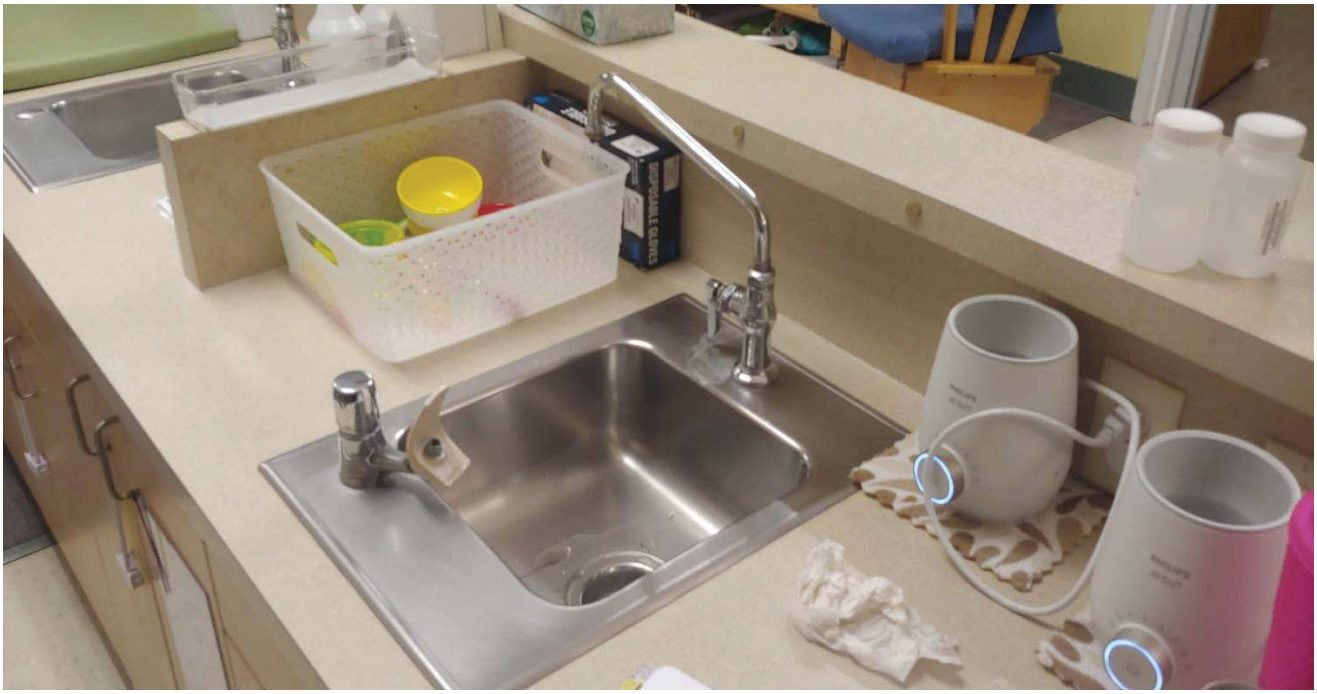

Photo 2 – Sample Result Indicated Cu Level Above EPA AL Criteria
Faucet on Combo Sink - Room #810 - Infant Care Room
Today Care Child Development Center - IRS Center 1160 W 1200 S Ogden, UT

LABORATORY ANALYSIS REPORT
ALS ENVIRONMENTAL – HOUSTON, TX

DRINKING WATER SAMPLES

TODAY CARE CHILD DEVELOPMENT CENTER
IRS SERVICE CENTER - UT0036ZZ
1160 WEST 1200 SOUTH
OGDEN, UT 84201

SEPTEMBER 9, 2021

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 27, 2021

Doug Pickup
FOH - PostOak
710 Featherbrook Court
Allen, TX 75002

Work Order: **HS21090545**

Laboratory Results for: **GSA-H2O IRS 0GDEN CCC**

Dear Doug Pickup ,

ALS Environmental received 15 sample(s) on Sep 11, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Work Order: HS21090545

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21090545-01	99-DW1 RM810 Sink	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-02	99-DW2 RM810 Fountain	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-03	99-DW3 RM809 Sink	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-04	99-DW4 RM809 Fountain	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-05	99-DW5 RM808 Sink	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-06	99-DW6 RM808 Fountain	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-07	99-DW7 RM07 Sink	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-08	99-DW8 RM807 Fountain	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-09	99-DW9 RM806 Fountain	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-10	99-DW10 RM806 Sink	Water		09-Sep-2021 06:00	11-Sep-2021 09:05	☐
HS21090545-11	99-DW11 RM805 Sink	Water		09-Sep-2021 07:00	11-Sep-2021 09:05	☐
HS21090545-12	99-DW12 RM805 Fountain	Water		09-Sep-2021 07:00	11-Sep-2021 09:05	☐
HS21090545-13	99-DW13 RM805 Sink	Water		09-Sep-2021 07:00	11-Sep-2021 09:05	☐
HS21090545-14	99-DW14	Water		09-Sep-2021 07:00	11-Sep-2021 09:05	☐
HS21090545-15	99-DW15	Water		09-Sep-2021 07:00	11-Sep-2021 09:05	☐

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Work Order: HS21090545

CASE NARRATIVE

Metals by Method E200.8

Batch ID: 170535

Sample ID: 99-DW1 RM810 Sink (HS21090545-01MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Copper)

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW1 RM810 Sink
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**1,620**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:32
Lead	**3.51**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW2 RM810 Fountain
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**1,270**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:38
Lead	**3.11**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW3 RM809 Sink
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**378**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:40
Lead	**3.22**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW4 RM809 Fountain
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**343**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:42
Lead	**2.31**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW5 RM808 Sink
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**758**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:44
Lead	**9.48**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW6 RM808 Fountain
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**570**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:51
Lead	**17.2**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW7 RM07 Sink
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**538**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:53
Lead	**6.06**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW8 RM807 Fountain
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**307**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:55
Lead	**1.48**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW9 RM806 Fountain
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**218**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:57
Lead	**3.80**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW10 RM806 Sink
Collection Date: 09-Sep-2021 06:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**1,090**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 14:59
Lead	**8.22**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 14:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW11 RM805 Sink
Collection Date: 09-Sep-2021 07:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**656**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 15:04
Lead	**6.40**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 15:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW12 RM805 Fountain
Collection Date: 09-Sep-2021 07:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-12
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**163**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 15:06
Lead	**1.06**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 15:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW13 RM805 Sink
Collection Date: 09-Sep-2021 07:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-13
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**519**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 15:08
Lead	**2.91**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW14
Collection Date: 09-Sep-2021 07:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-14
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**350**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 15:14
Lead	**0.881**	J	**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 15:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Sample ID: 99-DW15
Collection Date: 09-Sep-2021 07:00

ANALYTICAL REPORT
WorkOrder:HS21090545
Lab ID:HS21090545-15
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994	**Method:E200.8**				Prep:E200.8 / 24-Sep-2021		Analyst: JHD
Copper	**32.9**		**0.170**	**1.00**	**ug/L**	1	24-Sep-2021 15:16
Lead	**1.72**		**0.120**	**1.00**	**ug/L**	1	24-Sep-2021 15:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
WorkOrder: HS21090545

Batch ID: 170535 **Start Date:** 24 Sep 2021 08:00 **End Date:** 24 Sep 2021 12:00
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21090545-01		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-02		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-03		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-04		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-05		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-06		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-07		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-08		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-09		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-10		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-11		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-12		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-13		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-14		10 (mL)	10 (mL)	1	250 mL plastic, Neat
HS21090545-15		10 (mL)	10 (mL)	1	250 mL plastic, Neat

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
WorkOrder: HS21090545

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 170535 (0)	**Test Name :** METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS21090545-01	99-DW1 RM810 Sink	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:32	1
HS21090545-02	99-DW2 RM810 Fountain	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:38	1
HS21090545-03	99-DW3 RM809 Sink	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:40	1
HS21090545-04	99-DW4 RM809 Fountain	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:42	1
HS21090545-05	99-DW5 RM808 Sink	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:44	1
HS21090545-06	99-DW6 RM808 Fountain	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:51	1
HS21090545-07	99-DW7 RM07 Sink	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:53	1
HS21090545-08	99-DW8 RM807 Fountain	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:55	1
HS21090545-09	99-DW9 RM806 Fountain	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:57	1
HS21090545-10	99-DW10 RM806 Sink	09 Sep 2021 06:00		24 Sep 2021 12:00	24 Sep 2021 14:59	1
HS21090545-11	99-DW11 RM805 Sink	09 Sep 2021 07:00		24 Sep 2021 12:00	24 Sep 2021 15:04	1
HS21090545-12	99-DW12 RM805 Fountain	09 Sep 2021 07:00		24 Sep 2021 12:00	24 Sep 2021 15:06	1
HS21090545-13	99-DW13 RM805 Sink	09 Sep 2021 07:00		24 Sep 2021 12:00	24 Sep 2021 15:08	1
HS21090545-14	99-DW14	09 Sep 2021 07:00		24 Sep 2021 12:00	24 Sep 2021 15:14	1
HS21090545-15	99-DW15	09 Sep 2021 07:00		24 Sep 2021 12:00	24 Sep 2021 15:16	1

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
WorkOrder: HS21090545

QC BATCH REPORT

Batch ID: 170535 (0) **Instrument:** ICPMS06 **Method:** METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994

MBLK Sample ID: **MBLK-170535** Units: **mg/L** Analysis Date: **24-Sep-2021 14:28**
Client ID: Run ID: **ICPMS06_392116** SeqNo: **6288303** PrepDate: **24-Sep-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	U	0.00100								
Lead	U	0.00100								

LCS Sample ID: **LCS-170535** Units: **mg/L** Analysis Date: **24-Sep-2021 14:30**
Client ID: Run ID: **ICPMS06_392116** SeqNo: **6288304** PrepDate: **24-Sep-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	0.05676	0.00100	0.05	0	114	85 - 115				
Lead	0.05512	0.00100	0.05	0	110	85 - 115				

MS Sample ID: **HS21090545-10MS** Units: **mg/L** Analysis Date: **24-Sep-2021 15:00**
Client ID: **99-DW10 RM806 Sink** Run ID: **ICPMS06_392116** SeqNo: **6288319** PrepDate: **24-Sep-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	1.154	0.00100	0.05	1.087	134	70 - 130				SO
Lead	0.06545	0.00100	0.05	0.008221	114	70 - 130				

MS Sample ID: **HS21090545-01MS** Units: **mg/L** Analysis Date: **24-Sep-2021 14:34**
Client ID: **99-DW1 RM810 Sink** Run ID: **ICPMS06_392116** SeqNo: **6288306** PrepDate: **24-Sep-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	1.633	0.00100	0.05	1.616	35.1	70 - 130				SO
Lead	0.05793	0.00100	0.05	0.003509	109	70 - 130				

MSD Sample ID: **HS21090545-10MSD** Units: **mg/L** Analysis Date: **24-Sep-2021 15:02**
Client ID: **99-DW10 RM806 Sink** Run ID: **ICPMS06_392116** SeqNo: **6288320** PrepDate: **24-Sep-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	1.11	0.00100	0.05	1.087	45.9	70 - 130	1.154	3.89	20	SO
Lead	0.06348	0.00100	0.05	0.008221	111	70 - 130	0.06545	3.06	20	

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
WorkOrder: HS21090545

QC BATCH REPORT

Batch ID: 170535 (0) **Instrument:** ICPMS06 **Method:** METALS IN DRINKING WATER BY E200.8, REV 5.4, 1994

MSD Sample ID: **HS21090545-01MSD** Units: **mg/L** Analysis Date: **24-Sep-2021 14:36**
Client ID: **99-DW1 RM810 Sink** Run ID: **ICPMS06_392116** SeqNo: **6288307** PrepDate: **24-Sep-2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	1.659	0.00100	0.05	1.616	86.1	70 - 130	1.633	1.55	20	O
Lead	0.05792	0.00100	0.05	0.003509	109	70 - 130	0.05793	0.0293	20	

The following samples were analyzed in this batch:

HS21090545-01	HS21090545-02	HS21090545-03	HS21090545-04
HS21090545-05	HS21090545-06	HS21090545-07	HS21090545-08
HS21090545-09	HS21090545-10	HS21090545-11	HS21090545-12
HS21090545-13	HS21090545-14	HS21090545-15	

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
WorkOrder: **HS21090545**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
µg/L	Micrograms per Liter
Date	

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-33	30-Jun-2022
Illinois	2000322021-7	09-May-2022
Kansas	E-10352 2021-2022	31-Jul-2022
Kentucky	123043, 2021-2022	30-Apr-2022
Louisiana	03087, 2021-2022	30-Jun-2022
North Carolina	624-2021	31-Dec-2021
Texas	T104704231-21-28	30-Apr-2022

Client: FOH - PostOak
Project: GSA-H2O IRS 0GDEN CCC
Work Order: HS21090545

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS21090545-01	99-DW1 RM810 Sink	Login	9/11/2021 12:45:51 PM	NDR	MET083

Sample Receipt Checklist

Work Order ID: HS21090545 **Date/Time Received:** **11-Sep-2021 09:05**

Client Name: PostOak EHS **Received by:** **Jared R. Makan**

Completed By:	/S/ Nilesh D. Ranchod	11-Sep-2021 12:53	**Reviewed by:**	/S/ Dane J. Wacasey	27-Sep-2021 16:59
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **Water** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:254324/254325
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.3C UC/C	IR # 31
Cooler(s)/Kit(s):	46796	
Date/Time sample(s) sent to storage:	09/11/2021 13:00	

Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	Si Ma		

Login Notes: All sample preserved with 1 ml HNO3
on 9/11/2021 @ 12:45 Lot # 316135911
Before Pres. pH (6) After Preservation (1).

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

HS21090545

FOH - PostOak

GSA-H2O IRS 0GDENCCC

COC ID: 254324

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	Credit Card	Project Name	GSA-H2O
Work Order		Project Number	IRS OGDEN CCC
Company Name	PostOak EHS	Bill To Company	PostOak EHS
Send Report To	Doug Pickup	Invoice Attn	Doug Pickup
Address	710 Featherbrook Court	Address	710 Featherbrook Court
City/State/Zip	Allen, TX 75002	City/State/Zip	Allen TX 75002
Phone		Phone	
Fax	(214) 422-1427	Fax	(214) 422-1427
e-Mail Address	utpickup@gmail.com	e-Mail Address	utpickup@gmail.com

A: 200.8 Metals Drinking Water (200.8 Copper, Lead)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	99-DW1 RM 810 SINK	9/9/21	6 AM	Drinking	8	1	X										
2	99-DW2 RM 810 FOUNTAIN						X										
3	99-DW3 RM 809 SINK						X										
4	99-DW4 RM 809 fountain						X										
5	99-DW5 RM 808 SINK						X										
6	99-DW6 RM 808 FOUNTAIN						X										
7	99-DW7 RM 807 SINK						X										
8	99-DW8 RM 807 fountain						X										
9	99-DW9 RM 806 fountain						X										
10	99-DW10 RM 806 SINK						X										

Sampler(s) Please Print & Sign: Douglas T. Pickup

Shipment Method: FEDEX GN

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: Douglas T. Pickup	Date: 9/10/21	Time: 11AM	Received by:
Relinquished by:	Date: 9/11/21	Time: 09:05	Received by (Laboratory): J. Jimenez
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: PostOak GSA Water

Cooler ID	Cooler Temp.
46796	1.3°C

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III: Std QC/Raw Data
- [ ] Level IV SVOA8/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

1231 CFO

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 254325

HS21090545

FOH - PostOak

GSA-H2O IRS 0GDENCCC

WV

Customer Information		Project Information	
Purchase Order	Credit Card	Project Name	GSA-H2O
Work Order		Project Number	IRS OGDEN CCC
Company Name	PostOak EHS	Bill To Company	PostOak EHS
Send Report To	Doug Pickup	Invoice Attn	Doug Pickup
Address	710 Featherbrook Court	Address	710 Featherbrook Court
City/State/Zip	Allen, TX 75002	City/State/Zip	Allen TX 75002
Phone		Phone	
Fax	(214) 422-1427	Fax	(214) 422-1427
e-Mail Address	utpickup@gmail.com	e-Mail Address	utpickup@gmail.com

ALS Project Manager:

A: 200.8 Metals Drinking Water (200.8 Copper, Lead)

B C D E F G H I J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	99-DW11 RM805 Sink	9/9/21	7AM	Drinking	8	1	X										
2	99-DW12 RM805 Fountain						X										
3	99-DW13 RM805 Sink						X										
4	99-DW14						X										
5	99-DW15																
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Douglas L. Pickup

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: Douglas L. Pickup — Date: 9/10/21 — Time: 10AM

Received by:

Relinquished by: — Date: 9/11/21 — Time: 09:05

Received by (Laboratory): J. MCCOY

Logged by (Laboratory):

Checked by (Laboratory):

Notes: PostOak GSA Water

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III: Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
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3. The Chain of Custody is a legal document. All information must be completed accurately.